

Product Description

3M™ Night Vision 35 Solar Control Window Film is a polyester based solar control film using nano technology to enhance colour stability. It has low interior and exterior reflectivity, especially at night and a durable scratch-resistant coating.

Applications

3M™ Night Vision 35 is intended for interior application on flat glass substrates.

Typical Properties

The values displayed are the results of illustrative lab test measurements made according to the indicated external norm and shall not be considered as a commitment from 3M.

Product construction	
Material base, solar	Metallized PET
Adhesive	Pressure sensitive acrylic
Protective liner	Siliconized PET

Typical Performance Properties according to EN 410										
Glass Type	Film Type	Visible Light			Total Solar Energy Rejected	G Value (SHGC)	LSG (Light to solar gain)*	UV Block	Heat Gain Reduction	Glare Reduction
		Reflected (interior)	Reflected (exterior)	Transmission						
Single Pane		%	%	%	%		%	%	%	%
Clear	No Film	9	8	89	19	0.81	1.1	40	NA	NA
	NV 35	7	14	33	58	0.42	0.8	99.9	48	63
Tinted	No Film	6	5	53	39	0.61	0.9	82	NA	NA
	NV 35	7	8	20	64	0.36	0.6	99.9	41	62
Double Pane										
Clear	No Film	15	15	79	30	0.70	1.1	55	NA	NA
	NV 35	8	19	30	46	0.54	0.6	99.9	23	62
Tinted	No Film	13	8	47	51	0.49	1.0	85	NA	NA
	NV 35	8	9	18	61	0.39	0.5	99.9	20	62

*Transmission/G

Shelf Life and Storage (prior to application)

Shelf life is 5 years from the manufacturing date. Material should be stored in its original packaging, laying in a horizontal orientation, away from direct sunlight. Heavy objects should not be placed on top of it to avoid damaging the product. Recommended storage conditions are +21°C and 40 – 50% relative humidity. Avoid extreme temperature ranges in storage.

The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as a warranty.

Application

These are indicative values for 3M™ Window Film products.

Recommended substrate	Glass (as described in EN 15755-1)
Recommended surface	Flat to simple curved
Application method	Suitable for wet application
Application temperature	From +4°C to + 45°C
Application guidelines	Use a firm, narrow squeegee. Use both hands to apply consistent, firm pressure across the squeegee blade. Overlap 50% from the previous stroke. Remove as much water as possible in one pass.
Service temperature	From - 40°C to + 80°C
Edge sealing	Not necessary
Drying Time	Final adhesion is reached after approximately 20 days at +18°C and dry conditions.

Maintenance and Cleaning

Use a cleaning agent designed for high quality glass surfaces. The cleaning agent must be wet and non-abrasive with a pH value between 6 and 8 (neither strongly acidic nor strongly alkaline).

Health and Safety



WARNING

To help reduce the risk of personal injury and/or property damage associated with glass breakage, when working on or near glass surfaces, always use appropriate personal protective equipment.

Tools and Equipment Usage

When using any equipment, always follow the manufacturer's instructions for safe operation.

Chemicals

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety, and environmental information.

[Follow this link to obtain SDS sheets for 3M products.](#)

[Follow this link to obtain information about substances of very high concern \(SVHC\) for EU products.](#)

Warranty Information

Technical Information

Technical information, guidance, and other statements provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license to any intellectual property rights is granted or implied with respect to this technical information.

Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment, reviewing all applicable regulations and standards, and reviewing the product label and use instructions. Failure to properly evaluate, select, and use a 3M product in accordance with instructions or to meet all applicable safety regulations may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. Please refer to the Warranty Bulletin for 3M™ Window Films (Flat Glass Applications) and 3M™ Impact Protection Attachment (IPA) Sealant for complete details on warranty coverage, which can be obtained by contacting your 3M Authorized Window Film Dealer or your local 3M sales representative. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law. 3M Commercial Branding and Transportation products are not tested against automotive manufacturer specifications!

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